Manufacturer	Vamaha Matar Carparation	Manufacturer Code	YMX	
	Yamaha Motor Corporation			
Engine Family	KYMXC.998GEJ	Model Year	2019	
Certificate Number	KYMXC.998GEJ-018	Certificate Issue Date	09/27/2018	
Certificate Effective Date	09/27/2018	Certificate Revision Date	09/24/2018	
General Information				
Vehicle Category	Highway Motorcycle - III(>-279cc)	Sales Areas of All Vehicles/Engines in This Engine Family	Some 49, Some California	
Small Volume Manufacturer Recognition	Regular Volume	Are you Certifying This Vehicle/Engine By Design	No	
Manufacturer Code assigned by CARB	YAMA	Parent Company Name		
EPA Certification Fee Paid Date	07/31/2018	Application Type	Carry-Over	
Engine Family name that previously certified	JYMXC.998GEJ			
Permeation	Family Name	Does this Perm Family participate in Average Banking and Trading?		
KYMXP	METALF5	No		
Does this EF participate in an EPA and/or CARB emission averaging program?	Yes	Does this EF participate in EPA and/or CARB emission averaging program?	Both	
Testing procedure applied for exhaust emissions values	40CFR86, Subpart E: Chassis test	If Other, Please provide EPA/CARB approval ID for this testing procedure		
Are you the original manufacturer of the certifying vehicle/engine?	Yes			
Vehicle Original Equipment Manufacturer	Country where the Vehicles were assembled	Engine Original Equipment Manufacturer	Country where the Engines were assembled	
YAMAHA MOTOR CO., LTD.	JAPAN	YAMAHA MOTOR CO., LTD.	JAPAN	
Manufacturer Comments				

Date: 09/2//2016 00:55	7.27 AIVI		Certificatio	n Summary Intol ma	nion Keport		
Engine Family		KYMXC.998	GEJ	Model Year		2019	
A Emission Stan	dards and Certific	cation Levels					
EI	PA Exhaust Emission	s units:G/KM	20		8	94	
	Air Pollutant		HC	NOx	HC+	-NOx	СО
	Certification Lev	el			0	1.3	0.4
	Family Emission L	imit		0.5			
	Emission Standar	ds					12.0
Applicant Notes							
RB Emission St	andards and Certi	fication Levels					
C	ARB HMC Early Cor	mpliance Multiplier: ()			Evaporative Emission Diurnal + Hot Soak E (Unit: g/test):	s (HMC CARB-only) vaporative Emissions
7	Air Pollutant	THC	NOx	THC+NOx	CO	734 ANN 25	0016YDA
	Certification Level	0.16	0.10	0.26	0.4	().1
	Family Emission Limit			0.5			
I	Emission Standards			0.8	12	2	2.0
	mission Useful Life (UL) as applicable	UL (years):5	UL (km):30000 UL (years):5 UL (km):30000		UL (km):30000	
	Applicant Notes:			7550			
gine Family Desc	cription						
gine Family Useful	Life	EPA Required	Useful Life				
Fuel System Type		Single Fuel Sy	vstem				
	Primary	Operating Fuel Typ	e			Fuel Type, If O	ther
	Victor to Later de Later de la Consta	Gasoline					
mbustion Cycle		4-Stroke					
mbustion Cycle, If	Other						
vlinder Arrangemei		In Line					
ylinder Arrangemei							
umber of Cylinders		4		Valves per (Cylinder	4	
ngine Type Reciprocating (otto cycle)		varves per v	Jimaci	•			
ngine Type, If Other	•	1	(====,===,				
ngine Cooling Medi		Liquid Cooled	I				
ngine Cooling Medi							
oes this engine fami splacements?	y contain multiple	No		New Techno	ology	No	
Fechnology explanati	o n			Ten Tenne		110	
pplicant Notes							

Method of air aspiration for the engine Method of engine aspiration, If Other Charge Air Cooler Type No Air Cooler Electronic engine control module type Engine Control Module Applicable method of air injection methodology Pulse Secondary Air Injection Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Yes Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used 2	2019	Model Year	KYMXC.998GEJ	Engine Family
ECS Reference Number Total number of catalytic converters I 1 Catalytic converter type used Three Way Catalyst (TWC), single-bed, closed-loop warm up Catalyst Manufacturer Name Does the engine family use an Exhaust Gas Recirculation (EGR) technology as part of the Emission Control System? Applicable engine fuel system type Method of air aspiration for the engine Method of air aspiration, If Other Charge Air Cooler Type Charge Air Cooler Type Electronic engine control module type Applicable method of air injection methodology Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Sensor Type Sensor Type, If Other Number of feedback sensor(s) used Catalyst Manufacturer Location Description of the EGR technology used Catalyst Manufacturer Location Description of the EGR technology used Single Catalyst Manufacturer Location Description of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technology used Sequential Multiport FI FI Obscription of the EGR technol				Exhaust Emission Control Information
Catalyst Manufacturer Name Does the engine family use an Exhaust Gas Recirculation (EGR) technology as part of the Emission Control System? Applicable engine fuel system type If Other, Enter a description of the fuel system Method of air aspiration, If Other Charge Air Cooler Type Electronic engine control module type Applicable method of air injection methodology Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Sensor Type Oxygen Sensors Sensor Type, If Other Naturally aspirated Sensor System Applicable method of air injection methodology aspiration for the engine Oxygen Sensors Sensor Type, If Other Naturally Aspirated Air/fuel feedback sensor used on this engine family Sensor Type, If Other Number of feedback sensor(s) used Applicable method of air injection Sensor Type, If Other Number of feedback sensor(s) used	Yes	Is this engine family equipped with a catalytic converter?	1	ECS Reference Number
Catalyst Manufacturer Name Does the engine family use an Exhaust Gas Recirculation (EGR) technology as part of the Emission Control System? Applicable engine fuel system type If Other, Enter a description of the fuel system Method of air aspiration for the engine Method of engine aspiration, If Other Charge Air Cooler Type Electronic engine control module type Applicable method of air injection methodology Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used Three Way Catalyst (TWC), single-bed, closed-loop Catalyst Manufacturer Location Description of the EGR technology used Applicable Type No Air Cooler Engine Control Module Applicable method of air injection Method of air injection Method of air injection Method fair injection Method fair injection Method fair injection Methodology, If Other Air/fuel feedback sensor used on this engine family Sensor Type Oxygen Sensors Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used 2	Single	Applicable catalytic converter configuration	1	Total number of catalytic converters
Does the engine family use an Exhaust Gas Recirculation (EGR) technology as part of the Emission Control System? Applicable engine fuel system type If Other, Enter a description of the fuel system Method of air aspiration for the engine Method of engine aspiration, If Other Charge Air Cooler Type Electronic engine control module type Applicable method of air injection methodology Apilicable method of air injection methodology, If Other Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Sensor Type Sensor Type, If Other Number of feedback sensor(s) used 2 Description of the EGR technology used Description of the EGR technology used Sequential Multiport FI Description of the EGR technology used Sequential Multiport FI Description of the EGR technology used Sequential Multiport FI Description of the EGR technology used Sequential Multiport FI Sequential Multiport F				·
Recirculation (EGR) technology as part of the Emission Control System? Applicable engine fuel system type Sequential Multiport FI If Other, Enter a description of the fuel system Method of air aspiration for the engine Method of air aspiration, If Other Charge Air Cooler Type Electronic engine control module type Engine Control Module Applicable method of air injection methodology Applicable method of air injection methodology, If Other Air/fuel feedback sensor used on this engine family Yes Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used 2 Description of the EGR technology used Pulser Injection Description of the EGR technology used Sequential Multiport FI Sequential Multiport F		Catalyst Manufacturer Location		Catalyst Manufacturer Name
Applicable engine fuel system type If Other, Enter a description of the fuel system Method of air aspiration for the engine Method of engine aspiration, If Other Charge Air Cooler Type Electronic engine control module type Applicable method of air injection methodology Applicable method of air injection methodology, If Other Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Sensor Type Sensor Type, If Other Number of feedback sensor(s) used 2 Sequential Multiport FI Sequential Multipo		Description of the EGR technology used	No	Recirculation (EGR) technology as part of the
If Other, Enter a description of the fuel system Method of air aspiration for the engine Method of engine aspiration, If Other Charge Air Cooler Type Electronic engine control module type Applicable method of air injection methodology Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Sensor Type Sensor Type Sensor Type, If Other Number of feedback sensor(s) used 2 Naturally Aspirated No Air Cooler Electronic engine Control Module Pulse Secondary Air Injection Pulse Secondary Air Injection Naturally Aspirated No Air Cooler No Air Cooler No Air Cooler No Air Cooler Naturally Aspirated Naturally Aspir		= 1211-F 121 of the 2011 commoney about		•
Method of engine aspiration, If Other Charge Air Cooler Type No Air Cooler Electronic engine control module type Applicable method of air injection methodology Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Yes Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used 2			-	
Method of engine aspiration, If Other Charge Air Cooler Type No Air Cooler Electronic engine control module type Applicable method of air injection methodology Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Yes Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used No Air Cooler Engine Control Module Pulse Secondary Air Injection Pulse Secondary Air Injection Oxygen Sensors Yes Oxygen Sensors 2			Naturally Aspirated	Method of air aspiration for the engine
Electronic engine control module type Applicable method of air injection methodology Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Yes Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used Engine Control Module Pulse Secondary Air Injection Pulse Secondary Air Injection Oxygen Sensors Yes Oxygen Sensors 2			3 1	Method of engine aspiration, If Other
Applicable method of air injection methodology Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used 2			No Air Cooler	Charge Air Cooler Type
methodology Air injection methodology, If Other Air/fuel feedback sensor used on this engine family Sensor Type Sensor Type, If Other Number of feedback sensor(s) used Pulse Secondary Air Injection Yes Oxygen Sensors Sensor Used Oxygen Sensors 2			Engine Control Module	Electronic engine control module type
Air/fuel feedback sensor used on this engine family Yes Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used 2			Pulse Secondary Air Injection	Applicable method of air injection methodology
family Yes Sensor Type Oxygen Sensors Sensor Type, If Other Number of feedback sensor(s) used 2				Air injection methodology, If Other
Sensor Type, If Other Number of feedback sensor(s) used 2			Yes	
Number of feedback sensor(s) used 2			Oxygen Sensors	Sensor Type
				Sensor Type, If Other
			2	Number of feedback sensor(s) used
Configuration of the feedback sensors arrangement Series			Series	Configuration of the feedback sensors arrangement
Applicant Notes				Applicant Notes

Engine Family	KYMXC.998GEJ	Model Year		2019	
Exhaust Emission Data Vehicle/Engin	e (EDV/E) and Emissions T				
Test Vehicle Number	1	EDV ID		JYARN39Y9FA000001	
EDV Type	Carryover	Original EF	Name That Contains EDV Data	FYMXC.998GEJ	
DDV Engine Family if Different from ED' Engine Family	V 	Configuration	on ID	N527	
Model Name	YZF-R1C	Tire Pressur		42	
Road Load Force (N)	135.4	Rated Power		139.	
Rated Power Unit	kW	RPM at Rate		12000	
Cylinder (Block) Arrangement	In Line	Number of C		4	
ECS Number (From Tab 4)	1	Displacemen	=	998	
Transmission	Manual	Number of C		6	
N/V Ratio	45.1		nertia Mass (in kg)	300	
Curb Mass (in kg)	205		icle Mass (kg):	285	
Manufacturer Comments			. . .		
Exhaust Test					
		Tested at			
		Cumulativ Test			
MFR Test ID	Tool For Tool	e Km or Measuremen	Test Result	IO IIC - NO	co coa
Test Date Number Test By	Test For Test	uei Ar t Unit	Unit HC N	NOX HC + NOX	CO CO2
Test Date Number Test By	Test For Test	uel Hr t Unit	Unit HC N	NOx HC + NOx	CO CO
EPA Certification Levels and Deterio	ration Factors				
EPA Certification Levels and Deterior		NOv	HC + NOv		CO
End of Useful Life Emissions Value	нс	NOx 0.076	HC + NOx		CO 0.412
EPA Certification Levels and Deterion End of Useful Life Emissions Value Calculated by applying DF		NOx 0.076	HC + NOx 0.240		CO 0.412
End of Useful Life Emissions Value	нс				

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Engine Family		KYMXC.998GEJ		Model Year		2019	
Federal Mandat	ory Greenhouse Gas ((GHG) Reporting					
GHG Name	GHG Value	Unit of GHG Value	Measured/Estimated at Distance (km)	By Method	Test Vehicle ID	Reference/Citations	Test/Estimation Date
СН4	0.017	Grams Per Kilometer		Derived results based on EPA GHG default factor	_	40 CFR 86.431-78	N/A
CO2	156.2	Grams Per Kilometer	3517	Tested result from the EDV(s) of the Engine Family	JYARN39Y9FA000001	40 CFR 86.431-78	08/06/2014
N2O	0.007	Grams Per Kilometer		Derived results based on EPA GHG default factor	_	40 CFR 86.431-78	N/A
Applicant notes fo	or GHG data						

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Engine Family	KYMXC.998GEJ	Model Year	2019		
EPA - ONLY Permeation Emissions Con	trol/Test Data				
Fuel Tank Permeation Emissions Details					
Fuel Tank #1					
Permeation Family Name Emission Standard (g/m2/day) Certification Method Other	KYMXPMETALF5 1.5 Emission tests	Certification Level (g/m2/day) Family Emission Limit (g/m2/day) Fuel Tank Manufacturer	0.77 YAMAHA MOTOR CO.LTD.		
Use Carry-over Test Data? Carryover DF Tank Material Tank Material if Other	Yes No Metal	If carryover, from Permeation Family If carryover, from DF Permeation Family	JYMXPMETALF5 		
Control Strategy Least Thickness (mm) Least Barrier Mol (%) Production Method Production Method if Other Press	Inherently Low/Zero Permeation Material 1 Other Production Method	Least Barrier Weight (%) Least Barrier Thickness (mm)	 		
Test Data (g/m2/day) EPA Certificate Number	0.77	DF (g/m2/day)	0.0		
Fuel Line Permeation Emissions Details					
Fuel Line #1					
Certification Level (g/m2/day) Permeation Emissions Certification Method Certified By Design LINE Other	11.1 Emission tests	Emission Standard (g/m2/day) Fuel Line Manufacturer	15.0 KOKOKU INTECH CO.LTD		
Use Carry-over Test Data? Carryover DF Fuel Line Material Fuel Line Material	Yes No Other	If carryover, from Permeation Family If carryover, from DF Permeation Family	JYMXPMETALF5 		
FKM/ECO Least Thickness (mm) DF (g/m2/day)	2	Test Results (g/m2/day) EPA Certificate Number	11.14		
Fuel Line #2 Certification Level (g/m2/day) Permeation Emissions Certification Method Certified By Design LINE	10.9 Emission tests	Emission Standard (g/m2/day) Fuel Line Manufacturer	15.0 MEIJI FLOW SYSTEMS		

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Engine Family	KYMXC.998GEJ	Model Year	2019
Other			
Use Carry-over Test Data?	Yes	If carryover, from Permeation Family	JYMXPMETALF5
Carryover DF	No	If carryover, from DF Permeation Family	
Fuel Line Material	Other		
Fuel Line Material			
PA11			
Least Thickness (mm)	1	Test Results (g/m2/day)	10.87
DF (g/m2/day)		EPA Certificate Number	
Comments			

	KYMXC.998GEJ	Model Year	2019
Models Covered			
Model #1			
Reference Model Number	1	Final Assembly Manufacturer Name	Yamaha Motor Co., Ltd.
Manufacturer Model Name	YZF-R1	Commercial / Advertised Model Name	YZFR1K1L (YZF-R1)
Engine Code	N527	Vehicle Category	HMC:Class III
Evaporative Family (CARB)		Number of Evaporative Canisters (CARB)	1
Displacement (cc)	998	Bore (mm)	79.0
Stroke (mm)	50.9	Basic Ignition Timing (degrees, BTDC)	5
Rated Power (kW)	139.7	RPM @ Rated Power	12000
Rated Torque (nt-m)	112.4	RPM @ Rated Torque	11500
N/V Ratio	45.1	Curb Mass (kg)	205
Equivalent Inertial Mass (kg)	280	Loaded Vehicle Mass (kg):	285
Transmission (e.g. M5, A3, etc.)	M6		
Vehicle Emission Compliance Information VECI) Label Type	49-state Sales w/ 49-state Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?		•	
Permeation Family Name (s)	KYMXPMETALF5		
Applicant Notes			
-			
Model #2			
Reference Model Number	2	Final Assembly Manufacturer Name	Yamaha Motor Co., Ltd.
Manufacturer Model Name	YZF-R1	Commercial / Advertised Model Name	YZFR1K1R (YZF-R1)
Engine Code	N527	Vehicle Category	HMC:Class III
Evaporative Family (CARB)		Number of Evaporative Canisters (CARB)	1
Displacement (cc)	998	Bore (mm)	79.0
Stroke (mm)	50.9	Basic Ignition Timing (degrees, BTDC)	5
Rated Power (kW)	139.7	RPM @ Rated Power	12000
Rated Torque (nt-m)	112.4	RPM @ Rated Torque	11500
N/V Ratio	45.1	Curb Mass (kg)	205
Equivalent Inertial Mass (kg)	280	Loaded Vehicle Mass (kg):	285
Transmission (e.g. M5, A3, etc.)	M6	-	
Vehicle Emission Compliance Information VECI) Label Type	49-state Sales w/ 49-state Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	

Engine Family	KYMXC.998GEJ	Model Year	2019
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?			
Permeation Family Name (s)	KYMXPMETALF5		
Applicant Notes			
Model #3			
Reference Model Number	3	Final Assembly Manufacturer Name	Yamaha Motor Co., Ltd.
Manufacturer Model Name	YZF-R1C	Commercial / Advertised Model Name	YZFR1K1CL (YZF-R1 Cal model)
Engine Code	N527	Vehicle Category	HMC:Class III
Evaporative Family (CARB)	KYMXU0016YDA	Number of Evaporative Canisters (CARB)	1
Displacement (cc)	998	Bore (mm)	79.0
Stroke (mm)	50.9	Basic Ignition Timing (degrees, BTDC)	5
Rated Power (kW)	139.7	RPM @ Rated Power	12000
Rated Tower (kw) Rated Torque (nt-m)	112.4	RPM @ Rated Torque	11500
N/V Ratio	45.1	Curb Mass (kg)	205
Equivalent Inertial Mass (kg)	280	Loaded Vehicle Mass (kg):	285
Transmission (e.g. M5, A3, etc.)	M6	Louded Vemere Muss (kg).	203
Vehicle Emission Compliance Information (VECI) Label Type	California Sales w/ California Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?			
Permeation Family Name (s)	KYMXPMETALF5		
Applicant Notes			
Model #4			
Reference Model Number	4	Final Assembly Manufacturer Name	Yamaha Motor Co., Ltd.
Manufacturer Model Name	YZF-R1C	Commercial / Advertised Model Name	YZFR1K1CR (YZF-R1 Cal model)
Engine Code	N527	Vehicle Category	HMC:Class III
Evaporative Family (CARB)	KYMXU0016YDA	Number of Evaporative Canisters (CARB)	1
Displacement (cc)	998	Bore (mm)	79.0
Stroke (mm)	50.9	Basic Ignition Timing (degrees, BTDC)	5
Rated Power (kW)	139.7	RPM @ Rated Power	12000
Rated Torque (nt-m)	112.4	RPM @ Rated Torque	11500
N/V Ratio	45.1	Curb Mass (kg)	205
Equivalent Inertial Mass (kg)	280	Loaded Vehicle Mass (kg):	285

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Engine Family	KYMXC.998GEJ	Model Year	2019
Transmission (e.g. M5, A3, etc.)	M6		
Vehicle Emission Compliance Information (VECI) Label Type	California Sales w/ California Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?			
Permeation Family Name (s) Applicant Notes	KYMXPMETALF5		
Model #5			
Reference Model Number	5	Final Assembly Manufacturer Name	Yamaha Motor Co., Ltd.
Manufacturer Model Name	YZF-R1M	Commercial / Advertised Model Name	YZFR1MK (YZF-R1M)
Engine Code	N527	Vehicle Category	HMC:Class III
Evaporative Family (CARB)		Number of Evaporative Canisters (CARB)	1
Displacement (cc)	998	Bore (mm)	79.0
Stroke (mm)	50.9	Basic Ignition Timing (degrees, BTDC)	5
Rated Power (kW)	139.7	RPM @ Rated Power	12000
Rated Torque (nt-m)	112.4	RPM @ Rated Torque	11500
N/V Ratio	44.4	Curb Mass (kg)	206
Equivalent Inertial Mass (kg)	290	Loaded Vehicle Mass (kg):	286
Transmission (e.g. M5, A3, etc.)	M6		
Vehicle Emission Compliance Information (VECI) Label Type	49-state Sales w/ 49-state Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?			
Permeation Family Name (s)	KYMXPMETALF5		
Applicant Notes			
Model #6			
Reference Model Number	6	Final Assembly Manufacturer Name	Yamaha Motor Co., Ltd.
Manufacturer Model Name	YZF-R1MC	Commercial / Advertised Model Name	YZFR1MKC (YZF-R1M Cal model)
Engine Code	N527	Vehicle Category	HMC:Class III
Evaporative Family (CARB)	KYMXU0016YDA	Number of Evaporative Canisters (CARB)	1
Displacement (cc)	998	Bore (mm)	79.0

Engine Family	KYMXC.998GEJ	Model Year	2019
Stroke (mm)	50.9	Basic Ignition Timing (degrees, BTDC)	5
Rated Power (kW)	139.7	RPM @ Rated Power	12000
Rated Torque (nt-m)	112.4	RPM @ Rated Torque	11500
N/V Ratio	44.4	Curb Mass (kg)	206
Equivalent Inertial Mass (kg)	290	Loaded Vehicle Mass (kg):	286
Transmission (e.g. M5, A3, etc.)	M6		
Vehicle Emission Compliance Information (VECI) Label Type	California Sales w/ California Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?			
Permeation Family Name (s)	KYMXPMETALF5		
Applicant Notes			